

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 800167W0		Fransmittal of International Search Report 10) as well as, where applicable, item 5 below.
International application No.	International filing date (day month year)	(Earliest) Priority Date (day month year)
PCT/FI 03/00499	18 June 2003	20 June 2002
Applicant	~	
Nokia Corporation et al		
	peen prepared by this International Searchi copy is being transmitted to the Internation	
This international search report cons	ists of a total of 3 sheets.	•
X It is also accompanied by	a copy of each prior art document cited i	n this report.
1. Basis of the report		
	ne international search was carried out on the filed, unless otherwise indicated under this	
the international search v to this Authority (Rule 2:	was carried out on the basis of a translation 3.1(b)).	of the international application furnished
	and/or amino acid sequence disclosed in the d out on the basis of the sequence listing:	international application, the
contained in the internati	onal application in written form.	
filed together with the int	ernational application in computer readabl	e form.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readable form.	
	sequently furnished written sequence listing ion as filed has been furnished.	g does not go beyond the disclosure in
the statement that the info	ormation recorded in computer readable fo	orm is identical to the written sequence
2. Certain claims were found	d unsearchable (See Box I).	
3. Unity of invention is lack	ing (See Box II).	-
4. With regard to the title,		
the text is approved as su	,	<i>:</i>
the text has been establish	ned by this Authority to read as follows:	
,		
5. With regard to the abstract,		
the text is approved as su		
	ned, according to Rule 38.2(b), by this Aut e month from the date of mailing of this int ty.	
	ublished with the abstract is Figure No	
X as suggested by the applicant fail		None of the figures.
because the applicant fail		·
Decause uns ngure better	characterizes the invention.	

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H03M 13/27

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H03M, H04L, H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

1								
ı		•		•				
1	Category*	Citation of document,	with indication.	where appropriate.	of the relevant	passages	Relevant to clain	n No

1		
х	LEI, Sai-Weng et al. "Performance analysis of adaptive interleaving for OFDM systems". IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, May 2002, Vol. 51, No. 3, pages 435-444, ISSN: 0018-9545, INSPEC AN: 7292092, see section III, "Adaptive Interleaving".	1-5,7-10
A	US 2002044612 A1 (SIPOLA, J.), 18 April 2002 (18.04.02), abstract	1-10
	`	*
A	FP 0980162 A1 (NOKIA MOBILE PHONES LTD.).	1-10

16 February 2000 (16.02.00), abstract

Ł			
X	Further documents are listed in the continuation of Box	C.	See patent family annex.
*	Special categories of cited documents:	″T″	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken alone
1	special reason (as specified)	"Y"	
″0″	document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than	ישאי ייש	document member of the same patent family
	the priority date claimed	Œ.	document member of the same parent faining
Date	e of the actual completion of the international search	Date	of mailing of the international search report
l			0.2 _00_ 2002

Date of the actual completion of the international search

1 Sept 2003

Name and mailing address of the ISA/
Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Date of mailing of the international search report

0 2 -09- 2003

Authorized officer

Markus Stålö /0GU

Facsimile No. + 46 8 666 02 86
Form PCT/ISA/210 (second sheet) (July 1998)

Telephone No. + 46 8 782 25 00

INTERNATION SEARCH REPORT

Internal application No. PCT/F1 03/00499

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WO 9907076 A2 (SAMSUNG ELECTRONICS, LTD.), 11 February 1999 (11.02.99), abstract	1-10
	·	
	·	
į		
·		
	·	
	·	
		•
	·	
	·	
	·	
	1/210 (continuation of second sheet) (July 1998)	

INTERNATION SEARCH REPORT Information on the family members

26/07/03

Interponal application No.
PC77FI 03/00499

Patent document cited in search report			Publication date	Patent family member(s)			Publication date	
US 20020	044612	A1	18/04/02	AU EP FI FI FI WO	2852901 1169779 4671 108822 20000312 0161869	A U B A,V	27/08/01 09/01/02 25/10/00 00/00/00 15/08/01 23/08/01	
P 09	980162	A1	16/02/00	FI FI US	106491 981744 6563884	Α	00/00/00 13/02/00 13/05/03	
w 0 99	907076	A2	11/02/99	BR CN EP JP RU US	9811299 1264509 0997031 2001512914 2193276 6289486	T A T C	05/12/00 23/08/00 03/05/00 28/08/01 20/11/02 11/09/01	